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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/046,444	10/19/2001	Vinayak Tripathi	CR00302M	4053
7590 12/13/2005			EXAMINER	
DANIEL W. JUFFERNBRUCH Motorola, Inc Law Department 1303 E. Algonquin Road			WARE, CICELY Q	
			ART UNIT	PAPER NUMBER
	Schaumburg, IL 60196			***
•			DATE MAILED: 12/13/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/046,444	TRIPATHI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Cicely Ware	2634			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this commonication.  - If NO period for reply is specified above, the maximum statutory period was realiure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 22 Se	eptember 2005.				
2a) This action is <b>FINAL</b> . 2b) This	action is non-final.				
• —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7)⊠ Claim(s) <u>1-30</u> is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examine					
10)⊠ The drawing(s) filed on 22 September 2005 is/s	are: a)□ accepted or b)⊠ objec	ted to by the Examiner.			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct					
11)☐ The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	)-(d) or (f).			
1. Certified copies of the priority document	s have been received.				
2. Certified copies of the priority document	s have been received in Applicati	on No			
<ol><li>Copies of the certified copies of the prio</li></ol>	rity documents have been receive	ed in this National Stage			
application from the International Burea					
* See the attached detailed Office action for a list	of the certified copies not receive	<b>?d</b> .			
Attackment(c)					
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)			

#### **DETAILED ACTION**

## Response to Arguments

Examiner notes that the following changes were discussed with Attorney Frank
 Nicholas on 12/9/2005.

## **Drawings**

- 2. The drawings are objected to because:
- a. Fig. 1, element 25, applicant discloses that element 25 produces the soft estimates are computed through and then transferred to element 16. Element 25 does not have an output. Examiner suggests applicant use the correct directional flow output arrow for element 25 for clarification purposes.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an

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application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Specification

- 3. The disclosure is objected to because of the following informalities:
- a. Pg. 10, lines 1-4, examiner suggests applicant move equation number to the same line as the equations for clarification purposes.

  Appropriate correction is required.

#### Claim Objections

- 4. Claims 1-4, 21 are objected to because of the following informalities:
- a. Claims 1, 3, 21 recite wherein "the first iteration generates a first set of soft estimates of bits" and "the second iteration is a function of a first set of soft symbol estimates". Examiner asserts that this is inconsistent. Examiner assumes that if the first iteration generates a first set of soft estimate of bits and the second iteration is a function of the first iteration, then the first iteration generates a first set of soft symbol estimates.

Appropriate correction is required.

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5. Claims 5-20, 23-30 are objected to because of the following informalities:

a. Examiner suggests applicant describe all elements in all equations.

Appropriate correction is required.

#### Conclusion

6. This application is in condition for allowance except for the following formal matters:

- a. Drawings
- b. Specification
- c. Claim Objections

Prosecution on the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cicely Ware whose telephone number is 571-272-3047. The examiner can normally be reached on Monday – Friday, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Cicely Ware

cqw

December 12, 2005

STEPHEN CHIN SUPERVISORY PATENT EXAMINE Page 5

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